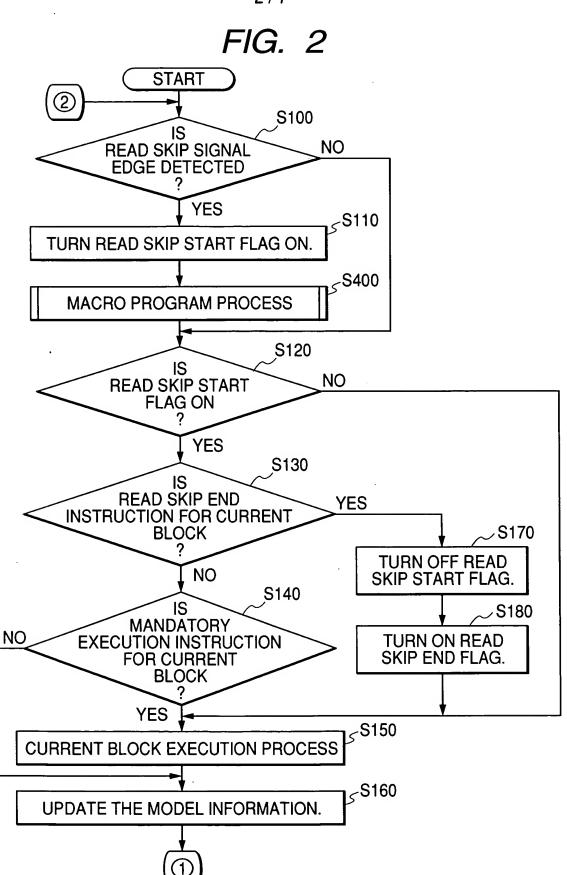


Toshio SHIMIZU, et al. Q82260 Numerical Control Apparatus Filing Date: July 20, 2004 Darryl Mexic 202-663-7909 2 of 7

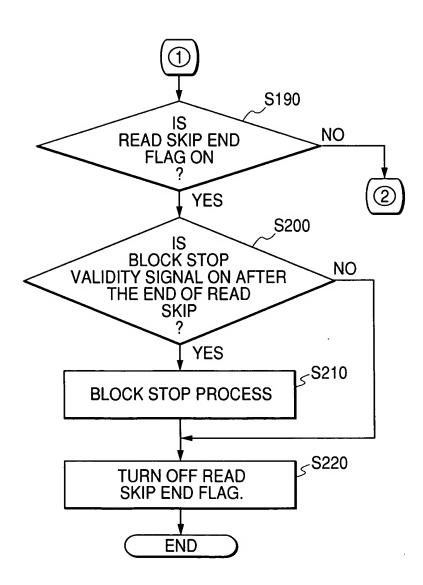
10/501866 Rec'd PCT/PTO 20 JUL 2004



Toshio SHIMIZU, et al. Q82260 Numerical Control Apparatus Filing Date: July 20, 2004 Darryl Mexic 202-663-7909 3 of 7

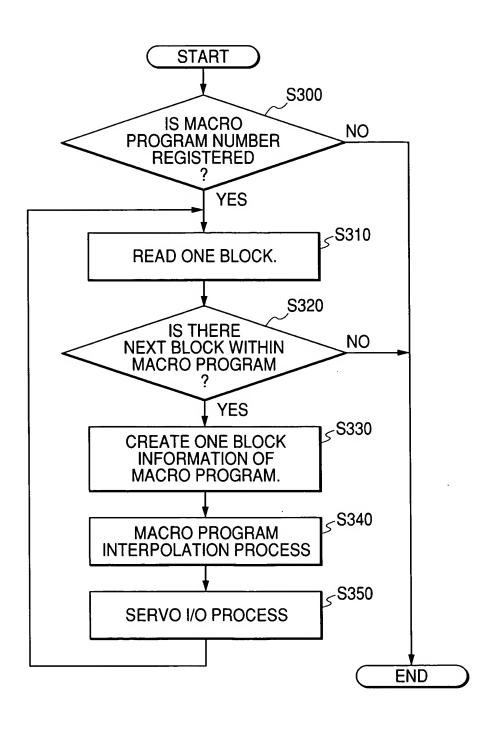
10/501866 Rec'd PCT/PTO 20 JUL 2004

FIG. 3



Toshio SHIMIZU, et al. Q82260 Numerical Control Apparatus Filing Date: July 20, 2004 Darryl Mexic 202-663-7909 Rec'd PCT/PTO 2 0 JUL 2004 4 of 7

FIG. 4



Toshio SHIMIZU, et al. Q82260 Numerical Control Apparatus Filing Date: July 20, 2004 Darryl Mexic 202-663-7909 5 of 7

10/501866

Rec'd PCT/PTO 20 JUL 2004

5/7

FIG. 5

```
N010 T01;
N020 G91 G30 X0 Y0 Z0;
N030 M06;
N040 G90 X10. Y10.
N050 Z10.;
N060 G01 Z50. F0.2;
...
N100 T02;
N110 G00 X50. Y50.;
...
N300 G91 G30 X0 Y0 Z0;
N310 M06;
....
```

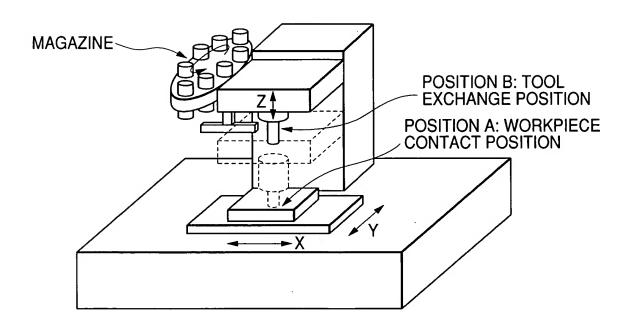
FIG. 6

G28 W0.;	· -	
M99;		

Toshio SHIMIZU, et al. Q82260 Numerical Control Apparatus Filing Date: July 20, 2004 Darryl Mexic 202-663-7909 6 of 7

10/501866 Rec'd PCT/PTO 20 JUL 2004

FIG. 7



7/7

HESIDUAL DISTANCE	0.910	0.000	1.000	0.000		ö	-			
MACHINE	12.090	15.000	4.000	10.000		′15.B10.; (13.Z5.F200				
- II	×	>	7	Ω				: .	:	
0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000	
1.020	1.900	000:0	3.055	0.000	2.003	0.000	0.000	0.000	0.000	
0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	
1.120	2.020	0.000	4.002	0.000	3.021	0.000	0.000	0.000	0.000	
-	2	က	4	5	9	7	80	റ	10	
	0.000 1.020	1.120 0.000 1.020 0.000 POSITION 2.020 0.000 1.900 0.000 X 12.090	1.120 0.000 1.020 0.000 POSITION 2.020 0.000 0.000 0.000 X 12.090 0.000 0.000 Y 15.000	1.120 0.000 1.020 0.000 X 12.090 POSITION	1.120 0.000 1.020 0.000 X 12.090 POSITION	1.120 0.000 1.020 0.000 X 12.090 POSITION	1.120 0.000 1.020 0.000 X 12.090	1.120 0.000 1.020 0.000 X 12.090	1.120 0.000 1.020 0.000 X 12.090	

F/G. 8